

Notice of Allowability

Application No.

09/960,305

Examiner

Susan S. Lee

Applicant(s)

JEONG, SU-JONG

Art Unit

2852

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 5/19/04.
2. ☒ The allowed claim(s) is/are 1,3-11,13-16,19-21,24-31,33,34,38,42,44 and 48.
3. ☒ The drawings filed on 24 September 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Susan S. Lee
Primary Examiner
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Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of claims 1, 3-5, 7, 26, 27, and 33 is the setting the charge voltage applied to the charge roller to be relatively higher in magnitude for a lower level of the resolution selected than for a higher level of the resolution. This is found in all of claims 1, 3-5, 7, 26, 27, and 33, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 6 and 14 is the inclusion of a gray pattern level variation at a low resolution is reduced by applying a charge voltage to the charge roller that is relatively large in magnitude relative to a charge voltage applied to the charge roller to reduce the gray pattern level variation at a high resolution. This is found in all of claims 6 and 14, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 8-11, 13, 15, 28 and 29 is the inclusion of a charge voltage of -1.4 kv applied to the charge roller when the print mode selected is a text mode; and a charge voltage of - 1.35 kv is applied to the charge roller when the print mode selected is a graphics mode. This is found in all of claims 8-11, 13, 15, 28, and 29, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 16, 19, 20, 30, and 31 is the inclusion of the charge voltage selectively applied to the charge roller is relatively large in magnitude for a lower level of the selected resolution and is relatively small in

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magnitude for a higher level of the selected resolution. This is found in all of claims 16, 19, 20, 30, and 31, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 21, 24, and 25 is the inclusion of the power supply unit selectively charging the charge roller with a charge voltage that is relatively high in magnitude when the selected print mode is text mode and relatively low in magnitude when the selected print mode is graphics mode. This is found in all of claims 21, 24, and 25, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 34 and 38 is the inclusion of when the type of print job is a resolution of the print job, the magnitude of voltage to which the charge roller is charged is greater for a lower resolution and smaller for a higher resolution. This is found in all of claims 34 and 38, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claims 42 and 44 is the inclusion of the power supply unit selectively charging the charge roller with a charge voltage that is relatively high in DC magnitude when the selected print mode is text mode and a charge voltage which is relatively low when the selected print mode is graphics mode. This is found in all of claims 42 and 44, but not disclosed nor suggested by the prior art of record.

The primary reason for allowance of claim 48 is the inclusion of when a type of print job is a selection between a text mode and a graphics mode, the magnitude of voltage to which the charge roller is charged is greater for the text mode and smaller for

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the graphics mode. This is found in all of claim 48, but not disclosed nor suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Susan S. Lee
Primary Examiner
Art Unit 2852

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